

San Joaquin River Basin Rotational Sub-basin Monitoring:
Eastside Basin, January 2003 – April 2004
(Stanislaus, Tuolumne, and Merced River Watersheds; and Farmington and Valley Floor
Drainage Areas)

MONITORING SITE INFORMATION

Site ID#: STC203 Site Name: MID Lateral 6/8 at Dunn Road

Sub-Basin: Valley Floor Drainage Area

Site Description, Location and Access:

This site is approximately four miles west of Salida. From Highway 99 in Modesto, follow Shoemaker Avenue approximately 7 miles to Dunn Road. Turn north (left) on Dunn Road. Turn left (west) onto the dirt road on the south side of the lateral. Samples were collected approximately 100 yards downstream of where the two laterals join.

Latitude/Longitude: Lat. N 37° 42' 30" Long. W 121° 09' 10"
County: Stanislaus

WATER SOURCE

The Modesto Irrigation District originates at La Grange Dam, where water from the Tuolumne River is channeled through MID's main canal. The canal carries water through Waterford and then branches into a system of laterals and drains to supply agricultural and municipal water to Modesto and the surrounding farmland. MID laterals can carry a mix of surface water from the Tuolumne River, groundwater, agricultural tail water, and urban storm runoff. The subdivision drainage pump area is 259 acres. Discharge into the San Joaquin River is about ½ mile downstream from the confluence of Laterals 6 and 8.



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MONTHLY PHOTO MONITORING

Site ID#: STC203 Site Name: MID Lateral 6/8 at Dunn Road

Sub-Basin: Valley Floor Drainage Area

Time Period Monitored: January 2003 – January 2004



MONITORING SITE INFORMATION

Site ID#: STC211 Site Name: MID Main Drain at Shoemake Avenue

Sub-Basin: Valley Floor Drainage Area

Site Description, Location and Access:

From Highway 99, take the Highway 132 exit to the west for approximately nine miles. Turn right (north) on Gates Road. Turn west (left) onto Shoemake Avenue, and travel exactly 0.95 miles. Right at this point there will be two telephone poles whose wires cross over the road, and a small white piece of fence standing perpendicular to the road on your left (south of the road). Samples were collected next to the fence.

Latitude/Longitude: Lat. N 37° 39' 59" Long. W 121° 10' 38"

County: Stanislaus

WATER SOURCE

Water for the Modesto Irrigation District originates at La Grange Dam, where water from the Tuolumne River is channeled through MID's main canal. The canal carries water through Waterford and then branches into a system of laterals and drains to supply agricultural and municipal water to Modesto and the surround farmland. STC211 replaced the STC202. STC211 is representative of a mixture of agricultural tailwater during the irrigation season and storm water during excessive rainfall years. The 14 mile drain discharges into Miller Lake which in turn discharges into the San Joaquin (MID).



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MONTHLY PHOTO MONITORING

Site ID#: STC211 Site Name: MID Main Drain at Shoemaker Avenue

Sub-Basin: Valley Floor Drainage Area

Time Period Monitored: February 2003 – March 2004



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MONITORING SITE INFORMATION

Site ID#: STC204 Site Name: MID Lateral 3/4 at Paradise Road

Sub-Basin: Valley Floor Drainage Area

Site Description, Location and Access:

This site is located approximately eight miles northwest of Modesto near Highway 132. From the corner of Grayson Road and Shiloh Road, west of Ceres, head north on Shiloh Road and turn west (left) onto Paradise Road to Laterals 3 and 4. Samples were collected near the concrete control gate, approximately 150 yards downstream from the road.

Latitude/Longitude: Lat. N 37° 38' 00" Long. W 121° 09' 50"
County: Stanislaus

WATER SOURCE

The Modesto Irrigation District originates at La Grange Dam, where water from the Tuolumne River is channeled through MID's main canal. The canal carries water through Waterford and then branches into a system of laterals and drains. This channel is a concrete lined pipeline, that can transport a mixture of Tuolumne River water, tail water (Lateral 3), ground water, ag tailwater, and urban storm runoff. The subdivision drainage pump area is 634 acres. Drainage into the San Joaquin River is 2 miles downstream of the confluence of Laterals 3 and 4.



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MONTHLY PHOTO MONITORING

Site ID#: STC204 Site Name: MID Lateral 3/4 at Paradise Road

Sub-Basin: Valley Floor Drainage Area

Time Period Monitored: January 2003 – January 2004

		
01/21/03	02/14/03	03/05/03
		
04/02/03	06/30/03	07/23/03
		
08/05/03	09/22/03	10/21/03
		
11/04/03	01/06/04	

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MONITORING SITE INFORMATION

Site ID#: STC208 Site Name: Lower Lateral 2 at Grayson Road

Sub-Basin: Valley Floor Drainage Area

Site Description, Location and Access:

Head west on Paradise Road in West Modesto and turn south on Shiloh Road. Turn east on Grayson Road. The site is just east of Shiloh Road on the south side of the road. Park on the east or west side of the lateral. Samples were collected from the wood crossover in the middle of the lateral.

Latitude/Longitude: Lat. N 37° 33' 57" Long. W 121° 08' 25"
County: Stanislaus

WATER SOURCE

The Turlock Irrigation District originates at La Grange Dam, where water from the Tuolumne River is channeled through the Turlock Main Canal. After filtering through Turlock Lake, TID's water is channeled through a system of laterals for agricultural and municipal use, and brought back to the San Joaquin River through its drains. Lower Lateral 2 is about ½ mile upstream of its confluence with the San Joaquin River.



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MONTHLY PHOTO MONITORING

Site ID#: STC208 Site Name: Lower Lateral 2 at Grayson Road

Sub-Basin: Valley Floor Drainage Area

Time Period Monitored: January 2003 – January 2004



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MONITORING SITE INFORMATION

Site ID#: STC501 Site Name: Harding Drain discharge to San Joaquin River

Sub-Basin: Valley Floor Drainage Area

Site Description, Location and Access:

This site is located five miles southeast of Patterson along Carpenter Road, about ¼ mile upstream of the SJR confluence. From interstate 5, take Fink Road east for approximately 3.6 miles. Continue northeast on Crows Landing Road for approximately 3.6 miles until Carpenter Road. Travel approximately 2.4 miles northwest until drain. Samples were collected from the drain on west side of Carpenter Road.

Latitude/Longitude: Lat. N 37° 27' 52" Long. W 120° 01' 49"
County: Stanislaus

Water Source

Harding Drain is an earth lined channel, carrying urban storm runoff, wastewater treatment plant effluence, agricultural tail and tile water, and is an operational spill, that drains 4250 acres. This site is 303(d) listed for ammonia, chlorpyrifos, diazinon, and unknown toxicity. As a long term monitoring site, monthly sampling was augmented during this study.



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MONTHLY PHOTO MONITORING

Site ID#: STC501 Site Name: Harding Drain discharge to San Joaquin River

Sub-Basin: Valley Floor Drainage Area

Time Period Monitored: January 2003 – January 2004



MONITORING SITE INFORMATION

Site ID#: MER201 Site Name: TID Lateral 6&7 at Central Avenue

Sub-Basin: Valley Floor Drainage Area

Site Description, Location and Access:

This site is located approximately seven miles west of Turlock, and two miles north of Hatfield Park. From the town of Turlock on Highway 99, take Highway 165 south to Williams Avenue. Turn right (west) and drive 5 miles to Mitchell Road; turn left (south). Turn right (west) on Turner and right (north) on Central. Turn left (west) onto the dirt road just south of Lateral 7, and follow it to the steel platform. Samples were collected from the bank to the west of the platform. This site was replaced by TID Lateral 7 due to blocked access to the area where Laterals 6 and 7 meet.

Latitude/Longitude: Lat. N 37° 23' 40" Long. W 120° 57' 40"
County: Merced

WATER SOURCE

Water for the Turlock Irrigation District originates at La Grange Dam, where water from the Tuolumne River is channeled through the Turlock Main Canal. After filtering through Turlock Lake, TID's water is channeled through a system of laterals for agricultural and municipal use, and brought back to the San Joaquin River through its drains. This site represents a TID Lateral, carrying a mixture of supply and drainage. The site discharges into the San Joaquin River at a point $\frac{3}{4}$ mile downstream of the confluence of Laterals 6 and 7.



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MONTHLY PHOTO MONITORING

Site ID#: MER201 Site Name: TID Lateral 6&7 at Central Avenue

Sub-Basin: Valley Floor Drainage Area

Time Period Monitored: January 2003 – April 2003

 01/22/03	 02/20/03	 03/17/03
 04/17/03		

MONITORING SITE INFORMATION

Site ID#: MER203 Site Name: TID Lateral 7 at Central Avenue

Sub-Basin Valley Floor Drainage Area

Site Description, Location and Access:

This site is located approximately seven miles west of Turlock, and two miles north of Hatfield Park. From the town of Turlock on Highway 99, take Highway 165 south to Williams Avenue. Turn west and drive five miles to Mitchell Road; turn south. Turn northwest on Turner Road and northeast on Central. Samples were collected from Lateral 7 near the gate.

Latitude/Longitude: Lat. N 37° 23' 39.1" Long. W 120° 57' 33.8"
County: Merced

WATER SOURCE

The Turlock Irrigation District originates at La Grange Dam, where water from the Tuolumne River is channeled through the Turlock Main Canal. After filtering through Turlock Lake, TID's water is channeled through a system of laterals for agricultural and municipal use, and brought back to the San Joaquin River through its drains. TID Lateral 7 at Central Avenue represents a comparison to Harding Drain and southern TID Drainage. Lateral 7 is approximately 1 mile from confluence with the San Joaquin River.



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MONTHLY PHOTO MONITORING

Site ID#: MER203 Site Name: TID Lateral 7 at Central Avenue

Sub-Basin Valley Floor Drainage Area

Time Period Monitored: May 2003 – January 2004

